



273981

DUPLICATE

EPA WORK ASSIGNMENT FORM (WAF) FOR RAC

1. WORK ASSIGNMENT (WA) INFORMATION

Project Name: North Bronson Industrial Area, Bronson, MI Contractor: Roy F. Weston, Inc. WA No.: 031-ROBE-051C
 Activity: Remedial Design Oversight EPA Contract No. 68-W7-0026 Revision No.: 005
 Date: March 19, 2001 Contractor Control No. _____ Modification No.: _____
 (Contracting Officer Use Only)

2. DESCRIPTION OF ACTION

<input type="checkbox"/> New WA (need WP for the WA) <input type="checkbox"/> Attach SOW including schedule <input type="checkbox"/> Designate WAM	<input type="checkbox"/> WA Amendment (need revised WP and/or cost estimate) <input type="checkbox"/> Change in LOE or scope by task <input type="checkbox"/> Add additional tasks or funds for increased activity	<input type="checkbox"/> Partial WP Approval <input type="checkbox"/> WP Disapproval <input type="checkbox"/> Final WP Approval <input type="checkbox"/> Amendment to Final WP Approval <input type="checkbox"/> Approve change in LOE, scope, or budget <input type="checkbox"/> Approve additional tasks	<input checked="" type="checkbox"/> Technical Direction Memorandum <input type="checkbox"/> Details on scope, budget, or schedule <input type="checkbox"/> Minor shift within SOW (no change in \$/LOE) <input type="checkbox"/> Change WAM <input type="checkbox"/> Set or revise expenditure limit (EL)	<input type="checkbox"/> Incremental Funding Fund approved WP <input type="checkbox"/> WA Closeout Notification <input type="checkbox"/> Notify contractor to initiate WA closeout task <input type="checkbox"/> Revise EL after final invoice <input type="checkbox"/> Other _____
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3. BUDGET INFORMATION

<input type="checkbox"/> Completion WA <input checked="" type="checkbox"/> Term WA Total Funding Received (\$) Previous Total <u>0</u> This Action <u>0</u> New Total <u>0</u> Funding Category: <u>Site Characterization</u> Activity Code: <u>BE</u> S/SID: <u>051C</u>	Approved Work Plan Budget <table> <tr> <th>LOE</th> <th>(\$)*</th> </tr> <tr> <td>Term WAs Only</td> <td></td> </tr> <tr> <td><u>2102</u></td> <td><u>173,515</u></td> </tr> <tr> <td><u>0</u></td> <td><u>0</u></td> </tr> <tr> <td><u>2102</u></td> <td><u>173,515</u></td> </tr> </table> * Includes fees	LOE	(\$)*	Term WAs Only		<u>2102</u>	<u>173,515</u>	<u>0</u>	<u>0</u>	<u>2102</u>	<u>173,515</u>	Expenditure Limits Not to Be Exceeded <table> <tr> <th>LOE</th> <th>(\$)*</th> </tr> <tr> <td>Term WAs only</td> <td></td> </tr> <tr> <td><u>2102</u></td> <td><u>173,515</u></td> </tr> <tr> <td><u>0</u></td> <td><u>0</u></td> </tr> <tr> <td><u>2102</u></td> <td><u>173,515</u></td> </tr> </table> * Includes fees	LOE	(\$)*	Term WAs only		<u>2102</u>	<u>173,515</u>	<u>0</u>	<u>0</u>	<u>2102</u>	<u>173,515</u>
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4. WA COMPLETION DATE Current: April 30, 2001 Revised: _____

5. EPA COMMENTS:

This Technical Direction Memorandum authorizes the contractor to prepare a work plan volume II based on the attached Statement of Work (SOW) dated March 15, 2001. In addition, the contractor shall prepare a spreadsheet including LOE and dollars by task for activities incurred through February 23, 2001 as well as LOE and dollars by task for activities anticipated to be completed by April 30, 2001 including the preparation of the work plan for Work Assignment 127-ROBE-051C and project closeout of this work assignment.

Contractor Signatures: _____ Site Manager/Firm _____ Program Manager/Firm _____	EPA Signatures: <u>Pat Vogtman</u> <u>3/19/01</u> Work Assignment Manager, Rosita Clarke-Moreno Date <u>Pat Vogtman</u> <u>3/19/01</u> Project Officer, Pat Vogtman Date <u>Daniel Alberts</u> <u>3/21/01</u> Signature of Contracting Officer, David Alberts Date
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☒ Approved As Submitted ☐ Approved With Changes ☐ Not Approved

WAM Copy _____

PO Copy _____

CO Copy _____

STATEMENT OF WORK FOR REMEDIAL DESIGN OVERSIGHT
North Bronson Industrial Area, Bronson, Michigan
March 16, 2001

Introduction

Site Description

The North Bronson Industrial Area Superfund site (the site) is a two hundred-acre parcel located in the city of Bronson, Branch County, Michigan. The site occupies the northern (industrial) area of the city of Bronson, it is bounded to the east by Lincoln Street as projected northward to County Drain #30 (CD #30), to the north by CD #30, to the west by Burr Oak Road as projected north by CD#30, and to the south by Fillmore and Union Streets. The predominant features of the site are two sets of seepage lagoons located in the northeast and northwest sections of the site, and CD#30.

Contamination detected at the site is the result of industrial activity and waste handling practices in the North Bronson area since the early 1900's. Initially, several industries discharged plating and other industrial wastes directly into CD#30. To reduce the amount of contaminants entering the drain, the city of Bronson constructed seepage lagoons to retain the waste generated by industry. An industrial sewer system was also constructed and used to convey waste from the facilities to the lagoons.

In June 1984, the U.S. EPA ranked the site for inclusion on the National Priorities List (NPL) and in June 1986, the site was made final on the NPL. The Remedial Investigation and Feasibility Study was funded by U.S. EPA and performed by Michigan Department of Environmental Quality (MDEQ) (formerly Michigan Department of Natural Resources). Remedial Investigations started in mid-1987 and were completed in September 1993 for Operable Unit I, and the Feasibility Study was completed in May 1995. In July 1997 the MDEQ completed a FS Addendum. This addendum updates the cleanup goals to reflect amendments to Michigan law in June 1995, presents an additional groundwater remediation alternative for the site, and identifies the industrial sewer as a potential source of contamination at the site requiring further study. This Industrial sewer and any media impacted by the sewer are identified as Operable Unit II.

Purpose

The purpose of this work assignment is to obtain contractor support for the oversight of the remedial design (RD) at the North Bronson Industrial Area Superfund site. Implementation of the RD shall be performed by the Potentially Responsible Parties (PRPs). The RD Oversight was initiated during the Base Period under work assignment 031-ROBE-05C1. This work assignment provides for the completion of the RD Oversight during the Option 1 Period.

Description of the RD

The work to be implemented by the Respondents shall include, but is not limited to, the following components:

- a. Fencing in the western lagoon area and the treatment wetland to control risks to human health and the environment associated with exposure to contaminants;
- b. Excavation of eastern lagoon sludge and soil and filling the excavated area with clean soil;

- c. Dredging of sediment from CD #30.
- d. Consolidating contaminated waste from the eastern lagoon and CD #30 into the western lagoons;
- e. Covering the western lagoons to control risks to human health and the environment associated with exposure to contaminants;
- f. Installing a French Drain between the western lagoons and CD #30 to capture contaminated groundwater;
- g. Pumping contaminated water from the French Drain;
- h. Constructing a treatment wetland to treat contaminated water collected by the French Drain. The goal for groundwater extraction and treatment is to reduce the concentration of contaminants to comply with state and federal surface water discharge criteria;
- i. Discharging treated water from the treatment wetland to CD #30;
- j. Monitoring groundwater and surface water quality to assess the effectiveness of the remedy;
- k. Marking the western lagoon area and the treatment wetland with permanent site markers;
- l. Placing enforceable restrictions on future land and groundwater use;
- m. Pre-design, additional and supplemental investigations/studies; and
- n. correction of work deficiencies;

It is envisioned that a modification will be made to the Record of Decision to include a contingency for the remedy which will allow for an alternative method of groundwater treatment if the selected remedy does not meet the selected clean-up standards. However, this modification does not fundamentally alter the overall approach intended by the remedy, and would be typical of the type of changes that occur during the remedial design process.

Objectives of Oversight

The primary objective of PRP oversight is to ensure that the remedies specified in the RD and used in the remedial action (RA) protect public health and the environment during the life of the project and are implemented in compliance with the terms of the Settlement Agreement. Oversight meets its objectives by observing and documenting that the PRP has complied with all applicable laws, regulations, and requirements, and has met all performance standards specified in the Settlement Agreement.

General Requirements

The contractor shall conduct the RD Oversight in accordance with this SOW and to ensure consistency with the ROD issued on June 19, 1998, the Settlement Agreement (CD or AOC), the *Remedial Design and Remedial Action Handbook (DRAFT)* (USEPA Office of Solid Waste and Emergency Response Directive, August 1993) and all other guidance used by USEPA in conducting an RDRA. See references listed in Attachment 2.

A summary of the major deliverables and the schedule for submittal is attached. See Attachment 1.

The contractor shall furnish all necessary and appropriate personnel, materials, and services needed, or incidental to, performing and completing the RD oversight. This especially includes personnel familiar with the design and construction of wetlands for treatment; phytoremediation; sediment and soil excavation and consolidation, cap construction, and groundwater remediation.

A list of primary guidance and reference material is attached. See Attachment 2. In all cases, the contractor shall use the most recently issued guidance.

The contractor shall maintain oversight files as specified in the contract and by the Work Assignment Manager or Remedial Project Manager (WAM/RPM). The WAM/RPM may periodically audit the site files and record-keeping procedures.

The contractor shall communicate at least weekly with the WAM/RPM, either in person or through conference calling, to report on oversight progress.

The contractor shall notify the WAM/RPM when 75 percent in accordance with the contract and when 95 percent of the approved work assignment budget has been expended.

USEPA will provide oversight of PRP contractor activities throughout the RD oversight efforts. USEPA review and approval of the contractor's deliverables is a tool to assist this process and to satisfy, in part, USEPA's responsibility to provide effective protection of public health, welfare, and the environment during the Contractor's oversight of the PRP's remedial activities. USEPA will review the deliverables prepared during the course of the work assignment to assess the likelihood that the RD will achieve its remediation goals and that all performance requirements applicable to the RD have been correctly identified and implemented. However, acceptance of deliverables by USEPA does not relieve the contractor of responsibility for the adequacy of the deliverable.

Record-Keeping Requirements

The contractor shall maintain all technical and financial records for the RD Oversight work assignment in accordance with the contract. At the completion of the work assignment, the contractor shall submit 1 copy of the official record of the remedial design oversight in hardcopy form in accordance with the information contained on the Work Assignment Completion Notification (WACN).

Equipment Transfer

At the completion of the work assignment or when government personal property is no longer required at the site, the contractor shall arrange for the proper disposition of government-furnished or contract-acquired property (purchased with contract funds) in accordance with the contract requirements. The disposition (transfer, sale, or abandonment) of government personal property and the tracking of such equipment shall be coordinated with the Contract Property Administrator. For additional information, refer to *Contractor's Guide for Control of Government Property*, Office of Administration and Resource Management, December 1988.

USEPA Primary Contact

The primary contact for this work assignment is Rosita Clarke-Moreno who is the Work Assignment Manager (WAM). The WAM can be reached at (312) 886-7251 or via telefax at (312) 353-5541 or via the

Internet at clarke.rosita@epa.gov. The secondary contact is Sally A. Averill. She can be reached at (312) 886-4439 or via telefax at (312) 353-5541 or via the Internet at averill.sally@epa.gov. The mailing address is U.S. EPA Region V, Mailcode: SR-6J, 77 West Jackson Blvd., Chicago IL 60604.

WA Completion Date & Project Closeout

The completion date for this work assignment is estimated to be 06/30/02. At the completion of the work assignment, the contractor shall perform all necessary project work assignment closeout activities as specified in the Contract. These activities may include closing out any subcontracts, indexing and consolidating project records and files as required above, and providing a technical and financial closeout report to USEPA. Final costs shall be reported to EPA (in hard copy form and on disk) broken down into the cost for each element of the Work Breakdown Structure (WBS) (Attachment 2) for this work assignment.

Task 1 Project Planning and Support

1.1 Project Planning. This task includes efforts related to project initiation.

1.1.1 Attend Kickoff Meeting. N/A

1.1.2 Conduct Site Visit. N/A. This activity was accomplished under WA 031-ROBE-051C.

1.1.3 Evaluate Existing Information and PRP Plans. N/A. This activity was accomplished under WA 031-ROBE-051C.

1.1.4 RD Oversight Work Plan

- Develop RD Oversight Work Plan. N/A. This activity was accomplished under WA 031-ROBE-051C.
- Prepare Revised Oversight Work Plan (if necessary)
 - Attend Fact Finding/Negotiation Meeting (if necessary) . The contractor shall attend a Work Plan fact finding/negotiation meeting at the Region 5 office. USEPA and the Oversight Contractor will discuss and agree upon the final technical approach and costs required to accomplish the tasks outlined in the SOW.
 - Prepare & Submit Revised Oversight Work Plan (if necessary) . The contractor shall prepare and submit a revised work plan incorporating the agreements made in the fact finding/negotiation meeting.

1.1.5 Review PRP Plans. N/A. This activity was accomplished under WA 031-ROBE-051C.

1.2 Preparation of Site-Specific Plans N/A. The preparation of the Health and Safety Plan was accomplished under WA 031-ROBE-051C.

1.3 Project Management

The contractor shall perform general work assignment management including management and tracking of costs, preparation of Monthly Progress Reports, attendance at project meetings, and preparation and

submittal of invoices. It is anticipated that the period of performance for this project is from May 1, 2001 through June 30, 2002.

If the contractor finds that the RD differs significantly from the ROD, the construction or implementation is not consistent with the design, requirements delineated within the Settlement Agreement (CD or AOC) are not being met, or that there are compliance issues with applicable or relevant and appropriate requirements (ARARs) at any point in the process, the contractor shall notify the WAM/RPM immediately to describe the issue.

1.3.1 Monthly Project Management and Reporting. The contractor shall provide general work assignment management and coordination to implement the work assignment SOW. The contractor shall prepare monthly progress reports in accordance with the requirements under the contract. The contractor shall manage and track costs and prepare and submit invoices. The contractor shall report costs and level of effort (by P-level) for the reporting period as well as cumulative amounts expended to date.

1.3.2 Meetings. The contractor shall participate in progress meetings during the course of the work assignment. For budgeting purposes, the contractor shall assume 2 meetings in Chicago, with (2) people in attendance, for (8) hours. This assumes hours for preparation, travel and attendance in meetings.

1.4 Subcontract Procurement and Support Activities. N/A

Task 2 Community Relations Technical Support

This task includes technical support provided by the contractor during public/availability meeting(s) under the associated community relations work assignment. The contractor shall provide community relations support to USEPA throughout the RD in accordance with *Community Relations in Superfund—A Handbook*, June 1988. For budgeting purposes the contractor shall assume that (2) staff will provide technical support at (2) public/availability meeting(s) and each meeting requiring an overnight stay.

Task 3 Data Acquisition/RD Oversight N/A This activity was accomplished under WA 031-ROBE-051C.

Task 4 Analysis of Split Samples N/A

Task 5 Analytical Support and Data Validation of Split Samples N/A

Task 6 Data Evaluation of Split Samples N/A

Task 7 Review of PRP Remedial Design Documents

This task involves work efforts to review and comment on PRP RD submittals. The contractor shall perform reviews to focus on the technical and engineering merit. Comment reports will be submitted upon the completion of each review by the oversight contractor in accordance with the schedule provided in Attachment 1, identifying specific issues and suggested corrective action. The following factors are to be considered during the review of all PRP submittals:

- Technical requirements of the ROD, Unilateral Administrative Order (UAO), Administrative Order of Consent (AOC), CD, and compliance with ARARs

- Standard professional engineering practices
 - Applicable statutes, USEPA policies, directives and regulations
 - Spot checking design calculations to assess accuracy and quality of design activities
 - Examination of planning and construction schedules for meeting project completion goals
- 7.1 Review PRP PreDesign Documents. The contractor shall review the PRP-prepared predesign, design, and remedial action (where applicable) project documentation to ensure professional quality, technical accuracy, compliance with the PRP RD Work Plan, the ROD and Unilateral Administrative Order, CERCLA, and all ARARs. Specific documents to be required include
- 7.1.1 Interim Results Deliverables [e.g., Treatability Study Work Results]. The contractor shall review and provide comments on any PRP interim design deliverables.
- Review of draft and final Pre-Design Studies Report
- 7.1.2 Other Non-Specific PRP Design Deliverables. The contractor shall budget 200 LOE for this effort.
- 7.2 Review PRP Remedial Design Documents
- 7.2.1 Review Preliminary Design. The contractor will review and comment on the PRP Design WorkPlan, PRP Pre-Design WorkPlan, and the Preliminary Design. The Preliminary Design shall include a review of the Project Delivery Strategy and Scheduling, Preliminary Construction Schedule, Specifications Outline, Preliminary Drawings Basis of Design Report/Design Analysis, Preliminary Cost Estimate, and PRP Description of Variances with the ROD.
- The contractor shall participate in a preliminary design review briefing. This meeting will take place in the USEPA regional office and last approximately half of a day. It is anticipated that approximately 2 contractor personnel will be in attendance.
- 7.2.2 Review Intermediate Design Documents. The contractor's review and comment of the Intermediate Design shall include a review of the Construction Schedule, Preliminary Specifications, Intermediate Drawings, Basis of Design Report/Design Analysis, Revised Cost Estimate, and PRP Description of Variances with the ROD. As necessary, the PRP Group may have the option of not submitting an entire report, but only crucial and specific information for design of remedy. A presentation would be replaced instead. Contractor should assume less documents for review in this phase.
- The contractor shall participate in an intermediate design review briefing/presentation. This meeting will take place in the USEPA regional office and last approximately 1 day. It is anticipated that approximately 2 - 3 contractor personnel will be in attendance.
- The contractor shall review the PRP response to design review comments, and submit comments on the PRP's response.
- 7.2.3 Review Prefinal/Final Design. The contractor's review and comment of the Prefinal Design

shall include a review of the Prefinal Design Specifications, Prefinal Drawings, Basis of Design Report/Design Analysis, Revised Cost Estimate.

The contractor shall participate in a prefinal design review conference call. The conference call will last approximately 2-3 hours. It is anticipated that approximately 1 - 2 contractor personnel will be in attendance at each meeting.

7.2.4 Review Final Design. The contractor shall review and comment of the Final Design. This shall include a review of the Final Design Specifications, Final Drawings, Basis of Design Report/Design Analysis, Final Cost Estimate.

7.2.5 The contractor shall review any PRP subcontract award document(s) available for review. This review may include reviews of the biddability (offerability) and constructability reviews and a revised project delivery strategy. The contractor shall assume 20 LOE for this effort.

7.2.6 The contractor shall review other PRP non-specific RD documents available for review. The contractor shall assume 150 LOE for this effort.

7.3 Review PRP Remedial Action Documents. N/A

Task 8 Remedial Action Oversight N/A

Task 9 Technical Meeting Support

This task includes work efforts related to attendance at and documentation of meetings with USEPA, PRPs, the PRP contractor, and the State Agency. The contractor shall attend various meetings throughout the performance of the work assignment. These meetings are in addition to the meetings specifically included within other tasks in this SOW. Meetings may be scheduled to coincide with the following specific milestones during the RD; at the PRP RD work plan review, in between design submittal reviews, before initiating on-site field sampling and treatability studies during the design phase, or at completion of all sampling during design activities. For budgeting purposes the contractor shall assume 4 meetings. It is anticipated that at least half the meetings would take place in Bronson, Michigan and the other half in the USEPA regional office and last approximately half of a day each. It is also anticipated that approximately 2 contractor personnel will be in attendance at each of these meetings.

Task 10 Work Assignment Closeout

The contractor shall perform the necessary activities to close outwork assignment in accordance with contract requirements.

10.1 Package and Return Documents to Government. The contractor shall package and return all documents to EPA.

10.2 Prepare Closeout Report. The contractor shall prepare a Work Assignment Closeout Report (WACR). The WACR shall include all LOE by p-level and costs in accordance with the WBS. The contractor shall provide an electronic copy of the most recent mailing list to the WAM concurrent with submittal of the WACR.

Attachment 1
Summary of Major Submittals for the Remedial Design Oversight at
North Bronson Industrial Area Site, Bronson, Michigan

TASK	DELIVERABLE	NO. OF COPIES	DUE DATE (in calendar days)
1.1.4	Revised RD Oversight Work Plan (if necessary)	3	15 days after meeting/agreement of USEPA comments
1.3.1	Monthly Progress Reports	3	In accordance with the requirements of the contract
7.1.1	Comments on Interim Design Documents	2	30 days after receipt of PRP Pre-Design Documents
7.1.2	Other Non-Specific PRP Deliverables	2	30 days after receipt of PRP Deliverable
7.2.1	Comments on PRP Preliminary Design Documents	2	30 days after receipt of PRP Preliminary Design documents
7.2.1	Comments on PRP Revised Preliminary Design	2	15 days after receipt of PRP Response
7.2.2	Comments on PRP Intermediate Design Documents	2	30 days after receipt of PRP Intermediate Design Documents
7.2.2	Comments on PRP Response of Intermediate Design	2	15 days after receipt of PRP Response
7.2.3	Comments on PRP Prefinal Design Documents	2	30 days after receipt of PRP Prefinal Design Documents
7.2.4	Comments on PRP Final Design Documents	2	15 days after receipt of PRP Final Design Documents
7.2.5	Comments on PRP Subcontract Award Documents	2	15 days after receipt of PRP Subcontract Award Documents
7.2.6	Comments on other PRP non-specific RD documents	2	30 days after receipt of document (s)
10.2	Work Assignment Closeout Report	3	As directed in Work Assignment Closeout Notification

Attachment 2

Regulations and Guidance Documents

The following list, although not comprehensive, comprises many of the regulations and guidance documents that apply to the RD process:

1. American National Standards Practices for Respiratory Protection. American National Standards Institute Z88.2-1980, March 11, 1981.
2. ARCS Construction Contract Modification Procedures September 89, OERR Directive 9355.5-01/FS.
3. CERCLA Compliance with Other Laws Manual, Two Volumes, USEPA, Office of Emergency and Remedial Response, August 1988 (DRAFT), OSWER Directive No. 9234.1-01 and -02.
4. Community Relations in Superfund — A Handbook, USEPA, Office of Emergency and Remedial Response, June 1988, OSWER Directive No. 9230.0-3B.
5. A Compendium of Superfund Field Operations Methods, Two Volumes, USEPA, Office of Emergency and Remedial Response, EPA/540/P-87/001a, August 1987, OSWER Directive No. 9355.0-14.
6. Construction Quality Assurance for Hazardous Waste Land Disposal Facilities, USEPA, Office of Solid Waste and Emergency Response, October 1986, OSWER Directive No. 9472.003.
7. Contractor Requirements for the Control and Security of RCRA Confidential Business Information, March 1984.
8. Data Quality Objectives for Remedial Response Activities, USEPA, Office of Emergency and Remedial Response and Office of Waste Programs Enforcement, EPA/540/G-87/003, March 1987, OSWER Directive No. 9335.0-7B.
9. Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual, USEPA Region IV, Environmental Services Division, April 1, 1986 (revised periodically).
10. EPA NEIC Policies and Procedures Manual, EPA-330/9-78-001-R, May 1978, revised November 1984.
11. Federal Acquisition Regulation, Washington, DC: U.S. Government Printing Office (revised periodically).
12. Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA, Interim Final, USEPA, Office of Emergency and Remedial Response, October 1988, OSWER Directive NO. 9355.3-01.
13. Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potential Responsible Parties, USEPA Office of Emergency and Remedial Response, EPA/540/G-90/001, April 1990.
14. Guidance on Expediting Remedial Design and Remedial Actions, EPA/540/G-90/006, August 1990.
15. Guidance on Remedial Actions for Contaminated Ground Water at Superfund Sites, USEPA Office of Emergency and Remedial Response (DRAFT), OSWER Directive No. 9283.1-2.
16. Guide for Conducting Treatability Studies Under CERCLA, USEPA, Office of Emergency and Remedial Response, Prepublication version.
17. Guide to Management of Investigation-Derived Wastes, USEPA, Office of Solid Waste and Emergency Response, Publication 9345.3-03FS, January 1992.
18. Guidelines and Specifications for Preparing Quality Assurance Project Plans, USEPA, Office of Research and Development, Cincinnati, OH, QAMS-004/80, December 29, 1980.
19. Health and Safety Requirements of Employees Employed in Field Activities, USEPA, Office of Emergency and Remedial Response, July 12, 1982, EPA Order No. 1440.2.
20. Interim Guidance on Compliance with Applicable of Relevant and Appropriate Requirements, USEPA, Office of Emergency and Remedial Response, July 9, 1987, OSWER Directive No. 9234.0-05.
21. Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans, USEPA, Office of Emergency and Remedial Response, QAMS-005/80, December 1980.
22. Methods for Evaluating the Attainment of Cleanup Standards: Vol. 1, Soils and Solid Media, February 1989, EPA 23/02-89-042; vol. 2, Ground water (Jul 1992).
23. National Oil and Hazardous Substances Pollution Contingency Plan; Final Rule, Federal Register 40 CFR Part 300, March 8, 1990.
24. NIOSH Manual of Analytical Methods, 2nd edition. Volumes I-VII for the 3rd edition, Volumes I and II, National Institute of Occupational Safety and Health.
25. Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities, National Institute of Occupational Safety and Health/Occupational Health and Safety Administration/United States Coast Guard/Environmental Protection Agency, October 1985.
26. _____ OSWER Directive No. 9355.7-02, May 23, 1991. [Guidance, p. 3-5]
27. _____ OSWER Directive No. 9242.3-08, December 10, 1991. [Guidance, p. 2-2]
28. Permits and Permit Equivalency Processes for CERCLA On-Site Response Actions, February 19, 1992, OSWER Directive 9355.7-03.
29. Procedure for Planning and Implementing Off-Site Response Actions, Federal Register, Volume 50, Number 214,

- November 1985, pages 45933-45937.
30. Procedures for Completion and Deletion of NPL Sites, USEPA, Office of Emergency and Remedial Response, April 1989, OSWER Directive No. 9320.2-3A.
 31. Quality in the Constructed Project: A Guideline for Owners, Designers and Constructors, Volume 1, Preliminary Edition for Trial Use and Comment, American Society of Civil Engineers, May 1988.
 32. Remedial Design and Remedial Action Handbook (Draft), USEPA, Office of Emergency and Remedial Response, August 1993, OSWER Directive No. 9355.5-22.
 33. Scoping the Remedial Design (Fact Sheet), May 1993, OSWER Publ. 9355-5-21 FS.
 34. Standard Operating Safety Guides, USEPA, Office of Emergency and Remedial Response, November 1984.
 35. Standards for the Construction Industry, Code of Federal Regulations, Title 29, Part 1926, Occupational Health and Safety Administration.
 36. Standards for General Industry, Code of Federal Regulations, Title 29, Part 1910, Occupational Health and Safety Administration.
 37. Superfund Guidance on EPA Oversight of Remedial Designs and Remedial Actions Performed by Potentially Responsible Parties, April 1990, _____.
 38. Superfund Remedial Design and Remedial Action Guidance, USEPA, Office of Emergency and Remedial Response, June 1986, OSWER Directive No. 9355.0-4A.
 39. Superfund Response Action Contracts (Fact Sheet), May 1993, OSWER Publ. 9242.2-08FS.
 40. TLVs-Threshold Limit Values and Biological Exposure Indices for 1987-88, American Conference of Governmental Industrial Hygienists.
 41. Treatability Studies Under CERCLA, Final. USEPA, Office of Solid Waste and Emergency Response, EPA/540/R-92/071a, October 1992.
 42. USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis, USEPA, Office of Emergency and Remedial Response, July 1988.
 43. USEPA Contract Laboratory Program Statement of Work for Organic Analysis, USEPA, Office of Emergency and Remedial Response, February 1988.
 44. User's Guide to the EPA Contract Laboratory Program, USEPA, Sample Management Office, August 1982.
 45. Value Engineering (Fact Sheet), USEPA, Office of Solid Waste and Emergency Response, Publication 9355.5-03FS, May 1990.
 46. Guide to Documenting Cost and Performance for Remediation Projects, Publication EPA-542-B-95-002, March 1995.
 47. Presumptive Remedies: Policy and Procedures, U.S. EPA, Office of Solid Waste and Emergency Response, Directive 9355.0-47FS, EPA 540-F-93-047, PB 93-963345, September, 1993.
 48. Presumptive Remedies for Soils, Sediments, and Sludges at Wood Treater Sites, U.S. EPA, Office of Solid Waste and Emergency Response, Directive 9200.5-162, EPA/540/R-95/128, PB 95-963410, November, 1995.
 49. Presumptive Response Strategy and Ex-Situ Treatment Technologies for Contaminated Groundwater at CERCLA Sites, U.S. EPA, Office of Solid Waste and Emergency Response, Directive 9283.1-12, EPA 5401R/023, June, 1996.